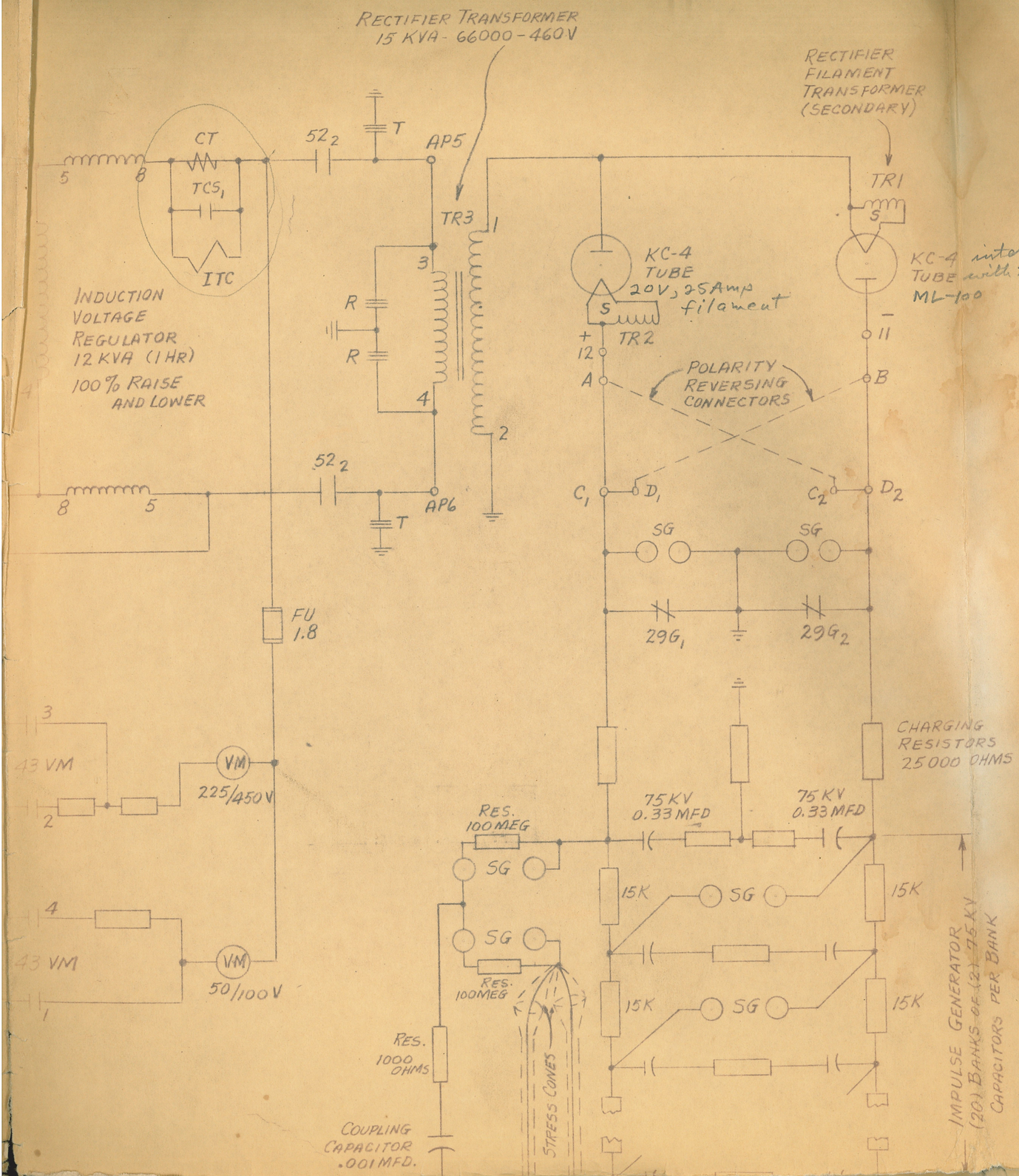
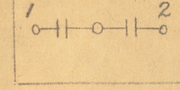


X = CONTACT CLOSED

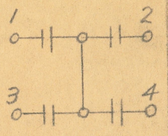
CONTACT DIAGRAM, 88 VRCS



CONT. NO.	POSITIONS RAISE	NORM.	LOWER
1			X
2	X		

SPRING RETURN TO

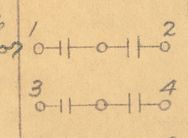
CONTACT DIAGRAM, 43 VM



CONT. NO.	POSITIONS 100	225	450	50
1				X
2			X	
3		X		
4	X			

SPRING RETURN FROM "50" TO "450"
SPRING RETURN FROM "100" TO "225"

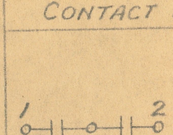
CONTACT DIAGRAM, 88 SGCS



CONT. NO.	POSITIONS OPEN	OFF	CLOSE
1	X		
2			X
3	X		
4			X
5	X		
6			X

SPRING RETURN TO

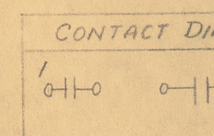
CONTACT DIAGRAM, 52 CS



CONT. NO.	POSITIONS RECT.	REG.	NORM.	TRIP
1	X	X		
2	X			
3	X	X	X	
4	X	X	X	

SPRING RETURN TO

CONTACT DIAGRAM, 88 SCS

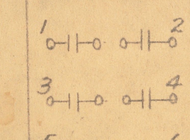


CONT. NO.	POSITIONS ON	OFF
1	X	
2	X	
3	X	
4	X	

CONTACT DIA., TCS

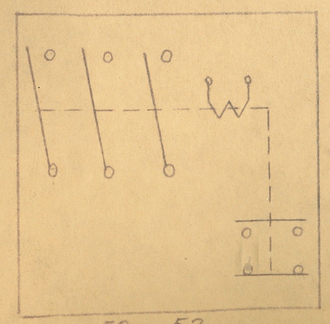
CONT. NO.	POSITIONS TRIP	NO TRIP
1		X
2		X

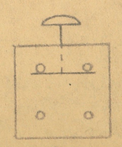
CONTACT DIAGRAM, 69F

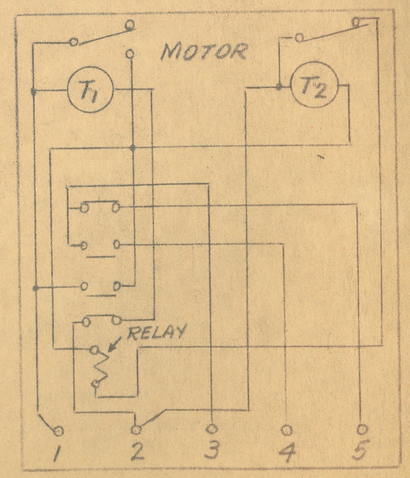


CONT. NO.	POSITIONS RUN	OFF	START
1	X		X
2	X		X
3	X		
4			X
5	X		
6	X		

SPRING RETURN FROM "START" TO "OFF"







G - THYRITE PROTECTOR AT GENERATOR

AUX.

220 VOLTS - 60 CYCLE SUPPLY

AP3 — 89 — FU 100 — 52₁

110 VOLTS 60 CYCLES

AP1 — 5 — C6

110 VOLTS 60 CYCLE

AP2 — 89 — FU 100 — 52₁

FU 10 — RAISE — 88VRLS — 2 — 88VRCS — T3 T2 T1 — C7 — 88VR — 88VRCS — 1 — LOWER — 88VRLS

FU 15 — T — A5 — TO AREA WARNING LIGHTS (SEE DWG. VM-57875)

TO AREA INTERLOCKS — A6 — INDICATING LIGHT (GATES CLOSED) — C4

4 — 52CS — 52CS — 3 — C5

52CS — 1 — 52₁

52₁ — TCS₂ — 52CS — 2 — 52₂

STARTING WINDING — MAIN WINDING — 88SG — CAPACITOR

88SGCS CLOSE — 88SGLS

FU 10 — 69F — 6 — A12 — G — T — OUTLET FOR ULTRA-VIOLET LAMP — AB1

TR4 P — TR5 P — 2 — trip set — G — IN TRIP SURGE GENERATOR

INDICATING LIGHTS

52₁ — G Panel (POWER ON)

52₁ — R Panel (REG. ON)

52₂ — R Panel (RECT. ON)

A7 — AB8 — 2 TDC — TR6 P — AB3

FU 15 — 1 — 69F — 2 — 69F — FU 1.8

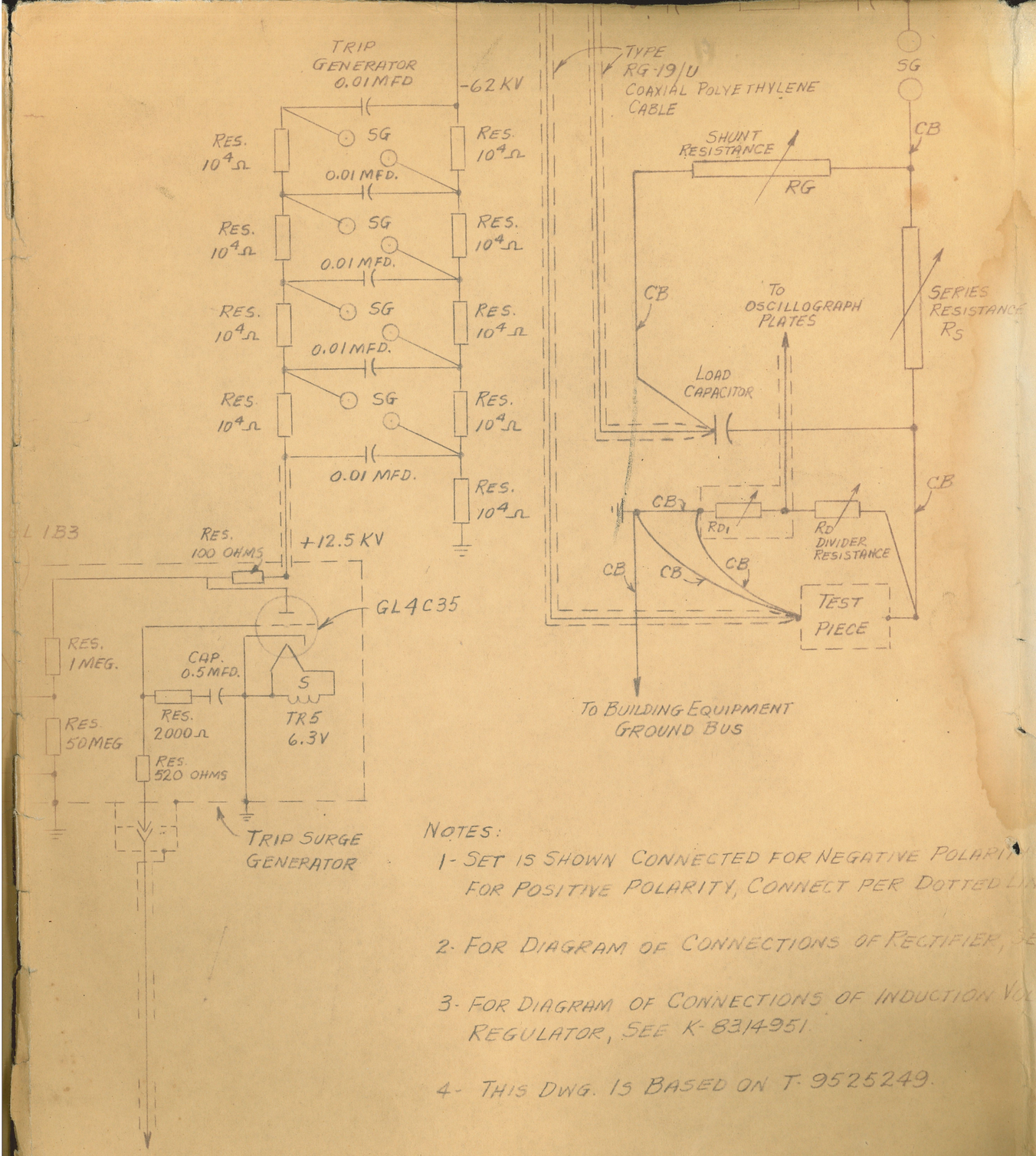
VARIABLE AUTO-TRANSFORMER TR7 — 1 3 2 4

3 — 69F — 4

TR8 — X1 H1 — X2 H2 — 750 VA 220V-66V.

VM — FILAMENT VOLTMETER 0-250V.

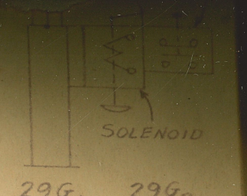
C2 — TR1 — C3



R- THYRITE PROTECTOR AT RECTIFIER

T- THYRITE PROTECTOR AT CONTROL PANEL

TDC - TIME DELAY CLOSING



CB	½" FLAT COPPER BRAID (AS SHORT AS POSSIBLE)
ITC	INSTANTANEOUS OVER CURRENT TRIP COIL
TCS	TRIP CONTROL SWITCH
CT	CURRENT TRANSFORMER, 5015 AMP.
89	LINE SWITCH
VR	INDUCTION VOLTAGE REGULATOR
VM	VOLTMETER
TR	TRANSFORMER
SG	SPHERE GAP
29G1, 29G2	GROUNDING SWITCHES
88SCS	SYNCHRONOUS SWITCH CONTROL
88S	SYNCHRONOUS SWITCH
88SG	SPHERE GAP MOTOR
88VRCS	REGULATOR CONTROL
88VR	REGULATOR MOTOR
69T	TIMER PERMISSIVE SWITCH
69H	WARNING HORN PERMISSIVE SWITCH
69F	FILAMENT SWITCH
52CS	MAIN CONTROL SWITCH
52₂	RECTIFIER CONTACTOR (CHARGE)
52₁	REGULATOR CONTACTOR (PRE-SET)
43VM	VOLTMETER SELECTOR
8H	WARNING HORN SWITCH
2	TIME DELAY RELAY
88SGCS	SPHERE GAP CONTROL

NOTES:

1- SET IS SHOWN CONNECTED FOR NEGATIVE POLARITY. FOR POSITIVE POLARITY, CONNECT PER DOTTED LINES.

2- FOR DIAGRAM OF CONNECTIONS OF RECTIFIER, SEE K-9827502.

3- FOR DIAGRAM OF CONNECTIONS OF INDUCTION VOLTAGE REGULATOR, SEE K-8314951.

4- THIS DWG. IS BASED ON T-9525249.

ELEMENTARY DIAGRAM

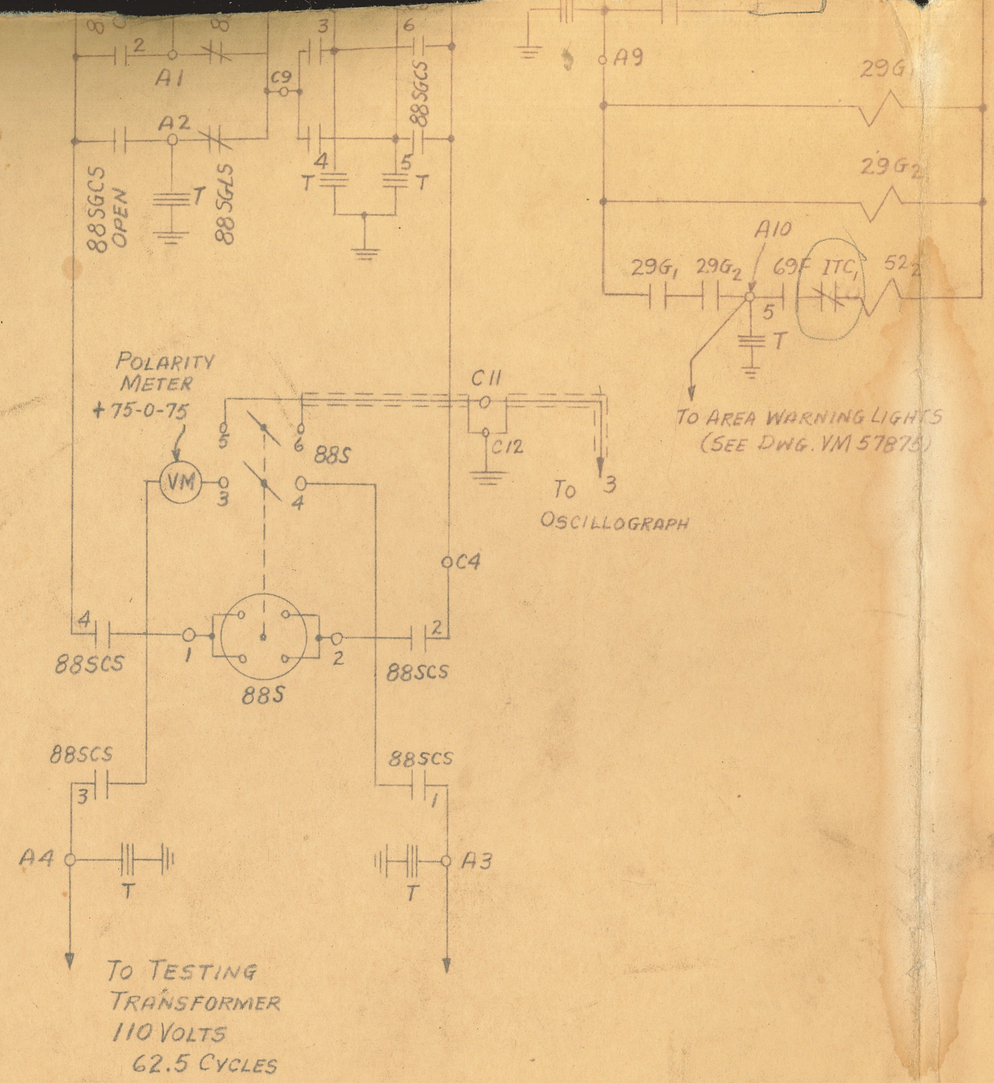
FOR 3000 KV IMPULSE GENERATOR

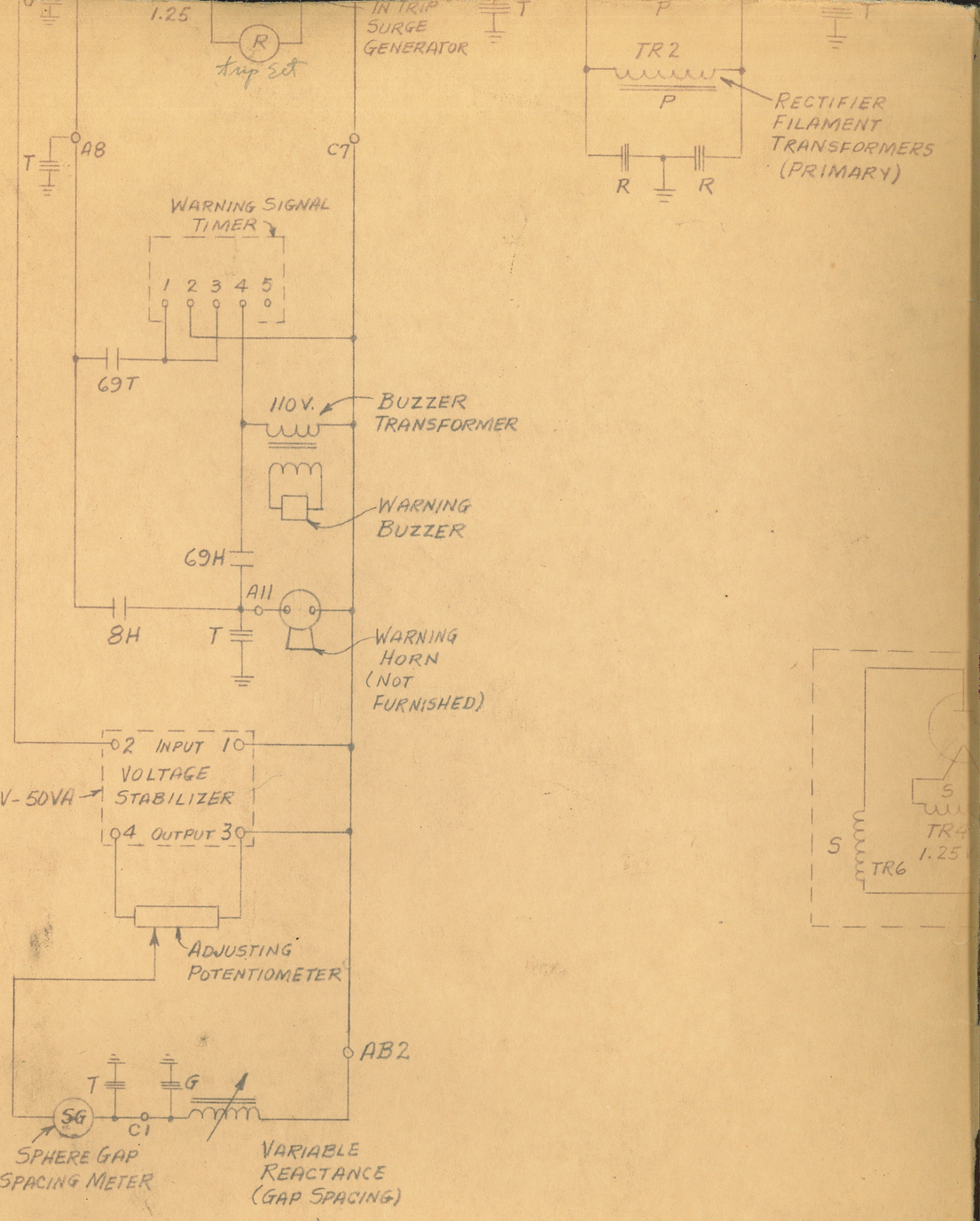
DR. BY EMH APP. BY D.M.D.

CHK. BY DATE 1-31-52

LOCKE DEPARTMENT
GENERAL ELECTRIC COMPANY
BALTIMORE, MARYLAND

DRAWING NO. XM-57988





253

ADDED CT; TCS1; TCS2; ITC1	REVISED 3G. ETC. BETWEEN IMPULSE GENERATOR & COUPLING CAPACITOR.
REVISED AREA WARNING LIGHTS. ADDED LIGHT BETWEEN A6 & C4.	REVISED DIAGRAM BETWEEN IMPULSE GENERATOR & TEST PIECE
IDENTIFIED INDICATING LIGHTS.	3-11-52
ADDED FUSE BETWEEN A7 & 2 TBC.	R-93
TUBE GL 1B3 WAS GL 8016.	
ADDED 100 OHM RES. NEAR GL-4C35	
ADDED 520 OHM RESISTOR IN T.S. GEN.	
1-14-52	
R-17	

EH
DMB

Imp Gen